

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (currently amended): A polypeptide selected from the group consisting of:
 - (a) a polypeptide comprising the amino acid sequence of SEQ ID NO:1, wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions,
 - (b) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has one additional amino acid at the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions,
 - (c) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a deletion of the N-terminal amino acid of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions, and
 - (d) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a plurality of additional amino acids at the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions, [[and]]
 - (e) ~~a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a plurality of amino acids deleted from the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions.~~

2. (previously presented) The polypeptide according to claim 1, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO: 3.

3. (previously presented) The polypeptide according to claim 1, wherein the amino acid at position 166 is substituted with glutamic acid or aspartic acid.

4. (withdrawn - previously presented) The polypeptide according to claim 1, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO: 4.

5. (withdrawn - previously presented) The polypeptide according to claim 1, wherein said polypeptide comprises the amino acid sequence of SEQ ID NO: 5.

6. (withdrawn - previously presented) A polynucleotide encoding the polypeptide according to claim 1.

7. (withdrawn - original) An expression vector comprising the polynucleotide according to claim 6.

8. (withdrawn - original) A host cell transformed with the expression vector according to claim 7.

9. (withdrawn - currently amended) A method for producing a polypeptide selected from the group consisting of:

(a) a polypeptide comprising the amino acid sequence of SEQ ID NO:1, wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions,

(b) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has one additional amino acid at the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions,

(c) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a deletion of the N-terminal amino acid of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions, and

(d) a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a plurality of additional amino acids at the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions, [[and]]

(e) ~~a polypeptide comprising the amino acid sequence of SEQ ID NO: 1, wherein said polypeptide has a plurality of amino acids deleted from the N-terminus of said polypeptide, and wherein said polypeptide has an amino acid substitution at position 162 of SEQ ID NO:1, an amino acid substitution at position 166 of SEQ ID NO:1, or an amino acid substitution at both positions,~~ comprising:

cultivating the host cell of claim 8 under conditions promoting expression of the polypeptide, and

recovering the polypeptide from the cell culture.

10. (previously presented) A cellulase composition comprising the polypeptide according to claim 1 and one or more members selected from the group consisting of a filler, an antiseptic and a nonionic surfactant.

11. (previously presented) A washing composition comprising the polypeptide according to claim 1 and one or more members selected from the group consisting of a surfactant, a bleach, a tarnish inhibitor, a soil release polymer, a second enzyme, an enzyme stabilizer, an optical brightener and a foaming agent.

12. (withdrawn - previously presented) A method of treating a cellulose-containing fabric, comprising contacting a cellulose-containing fabric with the polypeptide according to claim 1.

13. (withdrawn - previously presented) A method of reducing fuzzing of a cellulose-containing fabric or reducing a rate of the formation of fuzz, comprising contacting a cellulose-containing fabric with the polypeptide according to claim 1.

14. (withdrawn - previously presented) A method of reducing weight to improve the touch and appearance of a cellulose-containing fabric, comprising contacting a cellulose-containing fabric with the polypeptide according to claim 1.

15. (withdrawn - previously presented) A method of color clarification of a colored cellulose-containing fabric, comprising contacting a colored cellulose-containing fabric with the polypeptide according to claim 1.

16. (withdrawn - previously presented) A method of providing a localized color variation to colored cellulose-containing fabric, comprising contacting a colored cellulose-containing fabric with the polypeptide according to claim 1.

17. (withdrawn - previously presented) A method of reducing stiffness of a cellulose-containing fabric or reducing a rate of the formation of stiffness, comprising contacting a cellulose-containing fabric with the polypeptide according to claim 1.

18. (withdrawn - previously presented) The method according to claim 12, wherein the cellulose-containing fabric is contacted with the polypeptide according to claim 1 by soaking, washing, or rinsing the fabric in the presence of the polypeptide according to claim 1.

19. (withdrawn - previously presented) A method of de-inking waste paper, comprising contacting waste paper in need of de-inking with the polypeptide according to claim 1.

20. (withdrawn - previously presented) A method of improving freeness of paper pulp, comprising contacting paper pulp with the polypeptide according to claim 1.

21. (withdrawn - previously presented) A method of improving digestibility of animal feed, comprising treating animal feed with the polypeptide according to claim 1.